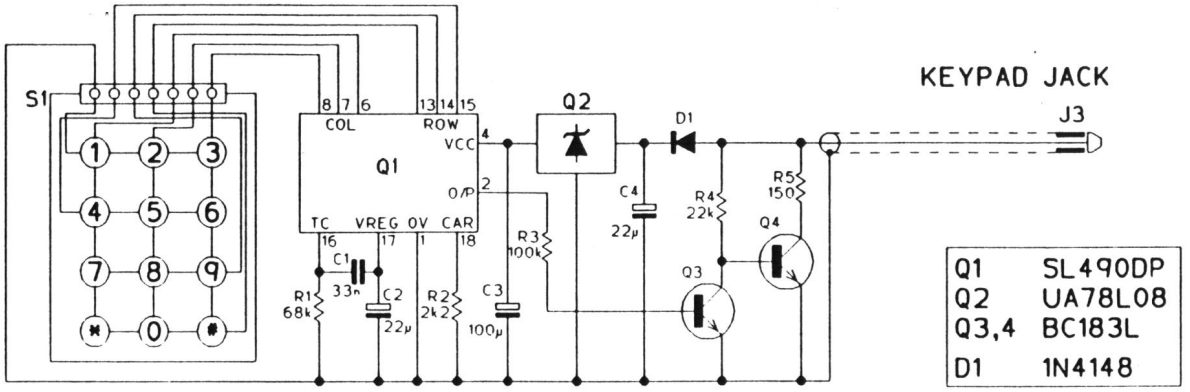
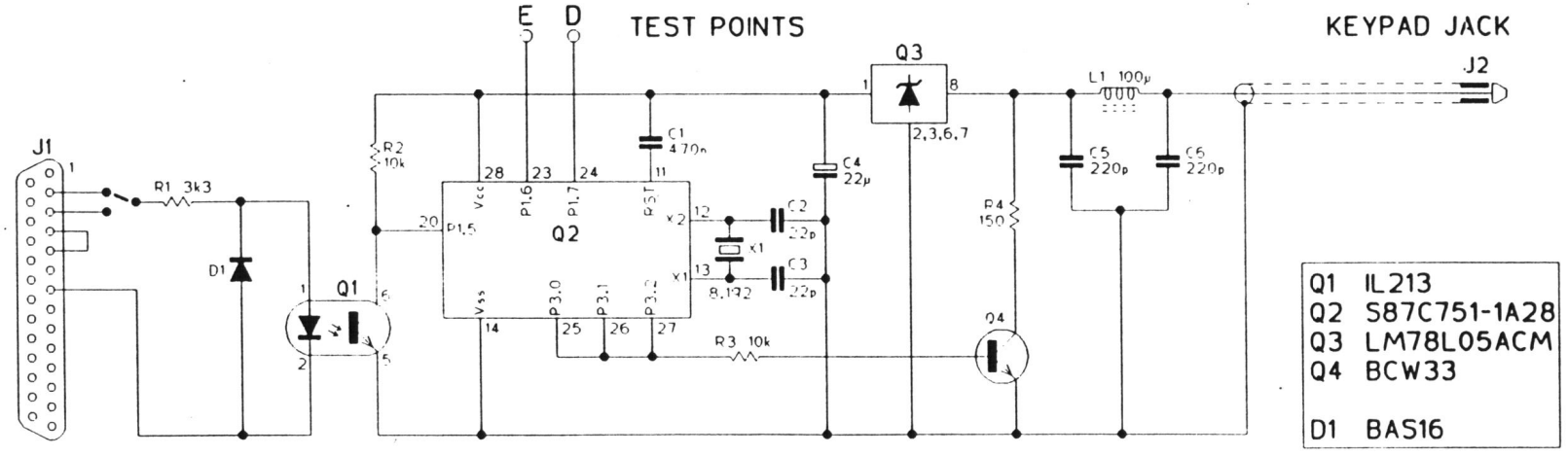
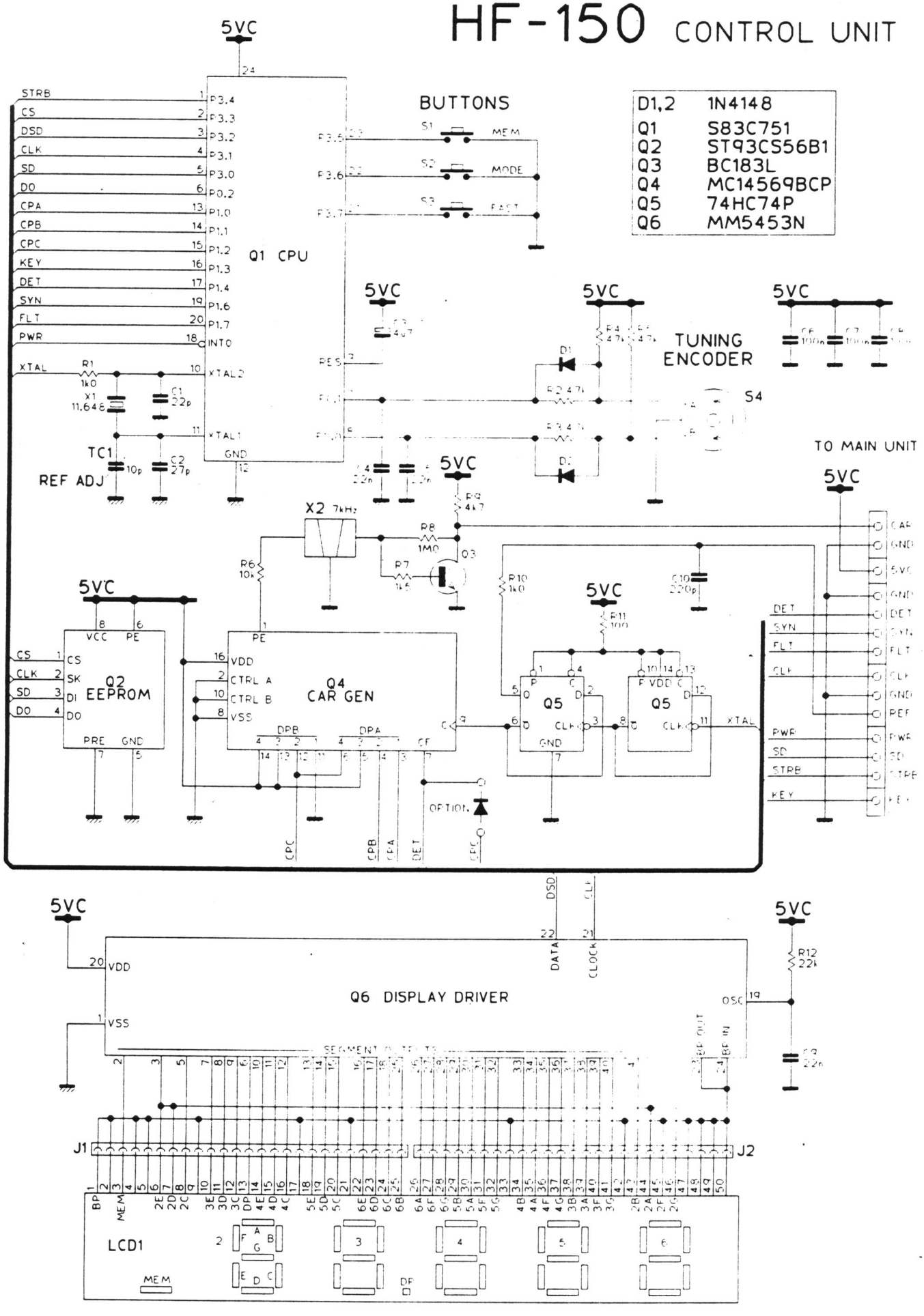
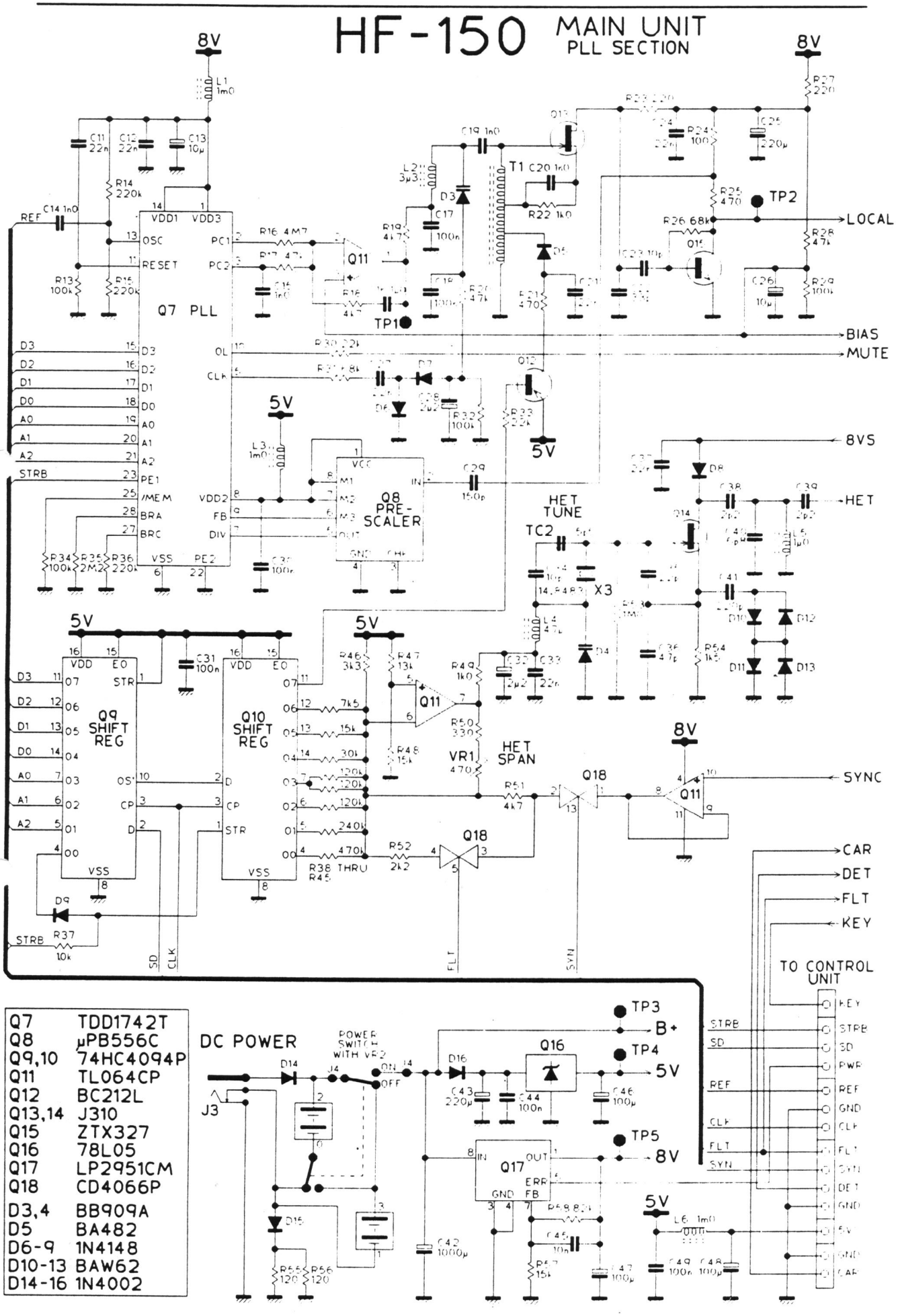


KPAD-1 EXTERNAL KEYPAD

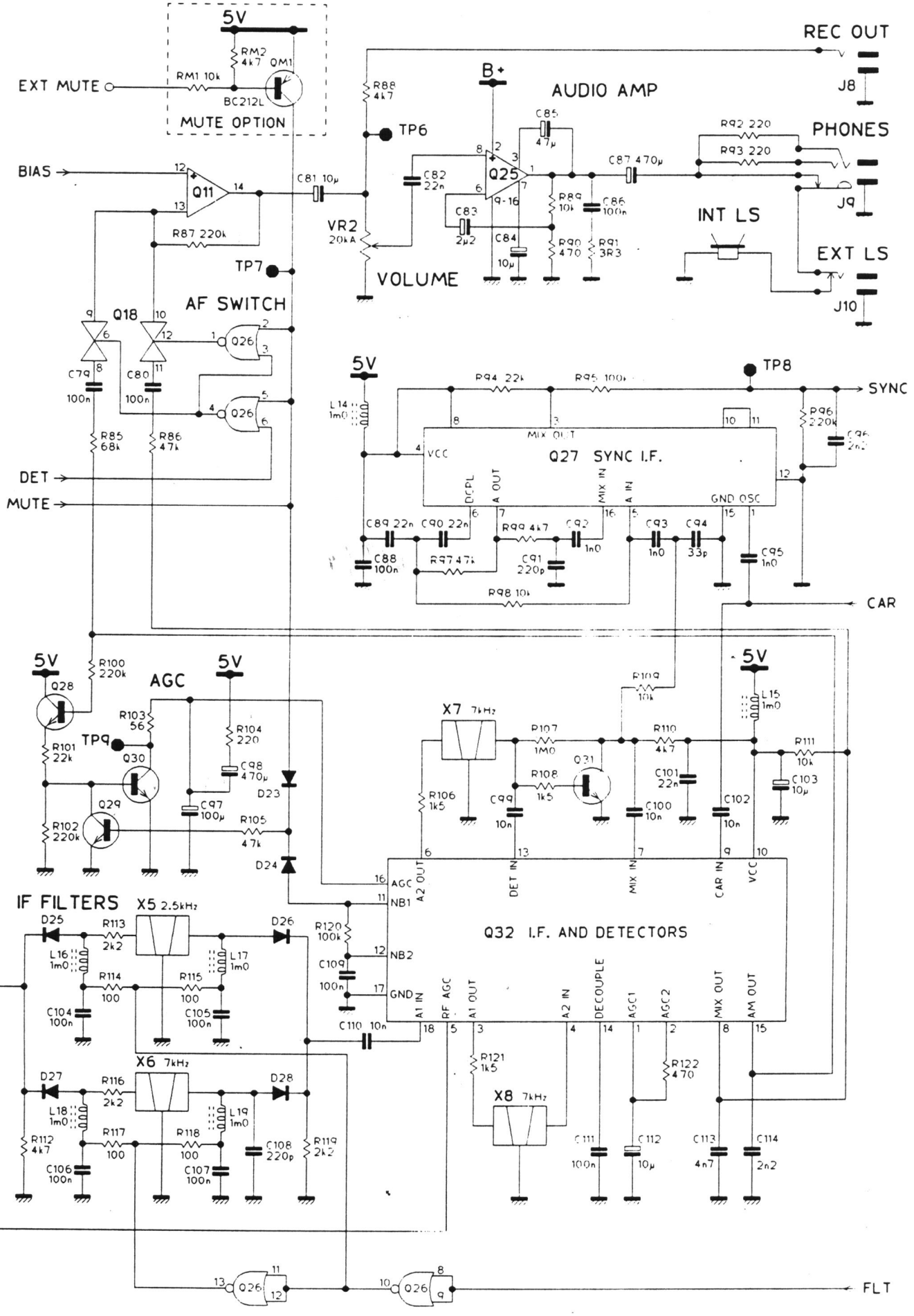


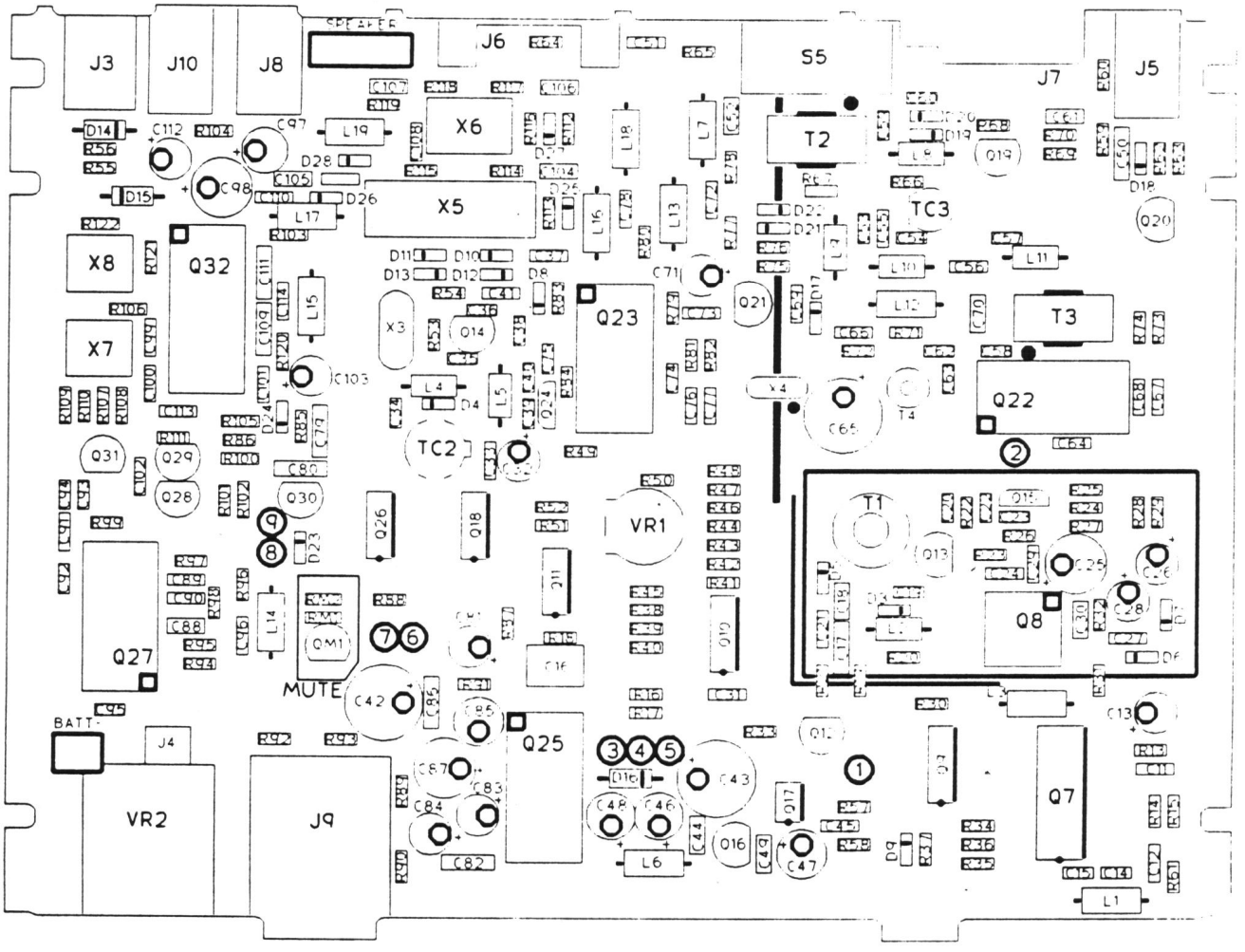
IF-150 RS232 INTERFACE

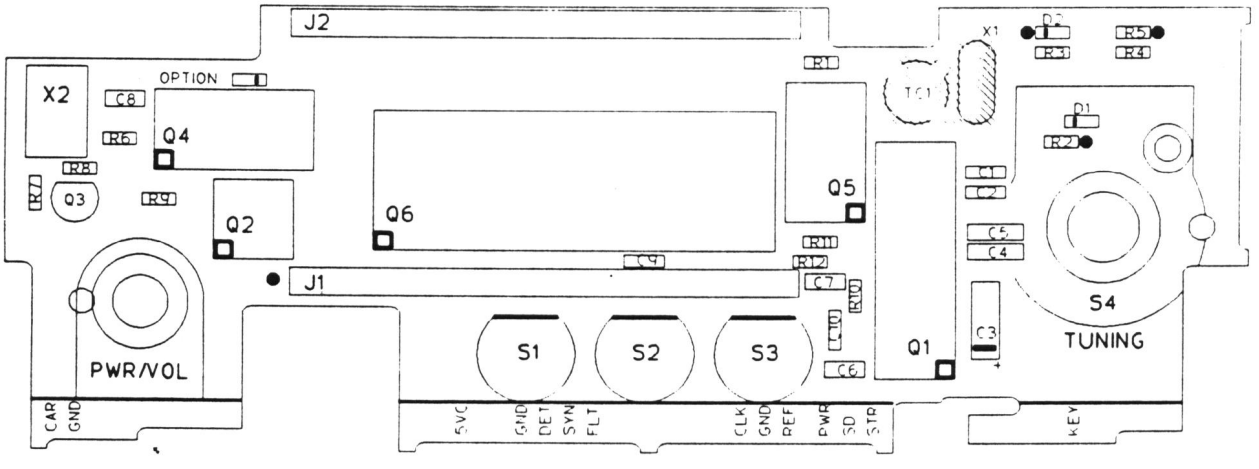

HF-150 CONTROL UNIT
5VC
BUTTONS
S1 MEM
S2 MODE
S3 FAST
D1,2 1N4148
Q1 S83C751
Q2 ST93CS56B1
Q3 BC183L
Q4 MC14569BCP
Q5 74HC74P
Q6 MM5453N
Q1 CPU
STRB
CS
DSD
CLK
SD
DO
CPA
CPB
CPC
KEY
DET
SYN
FLT
PWR
XTAL
TUNING ENCODER
S4
TO MAIN UNIT
X1 11.648
X2 7kHz
TC1
REF ADJ
Q2 EEPROM
Q4 CAR GEN
Q5
OPTION
Q6 DISPLAY DRIVER
DATA
CLOCK
J1
J2
LCD1
MEM
DP



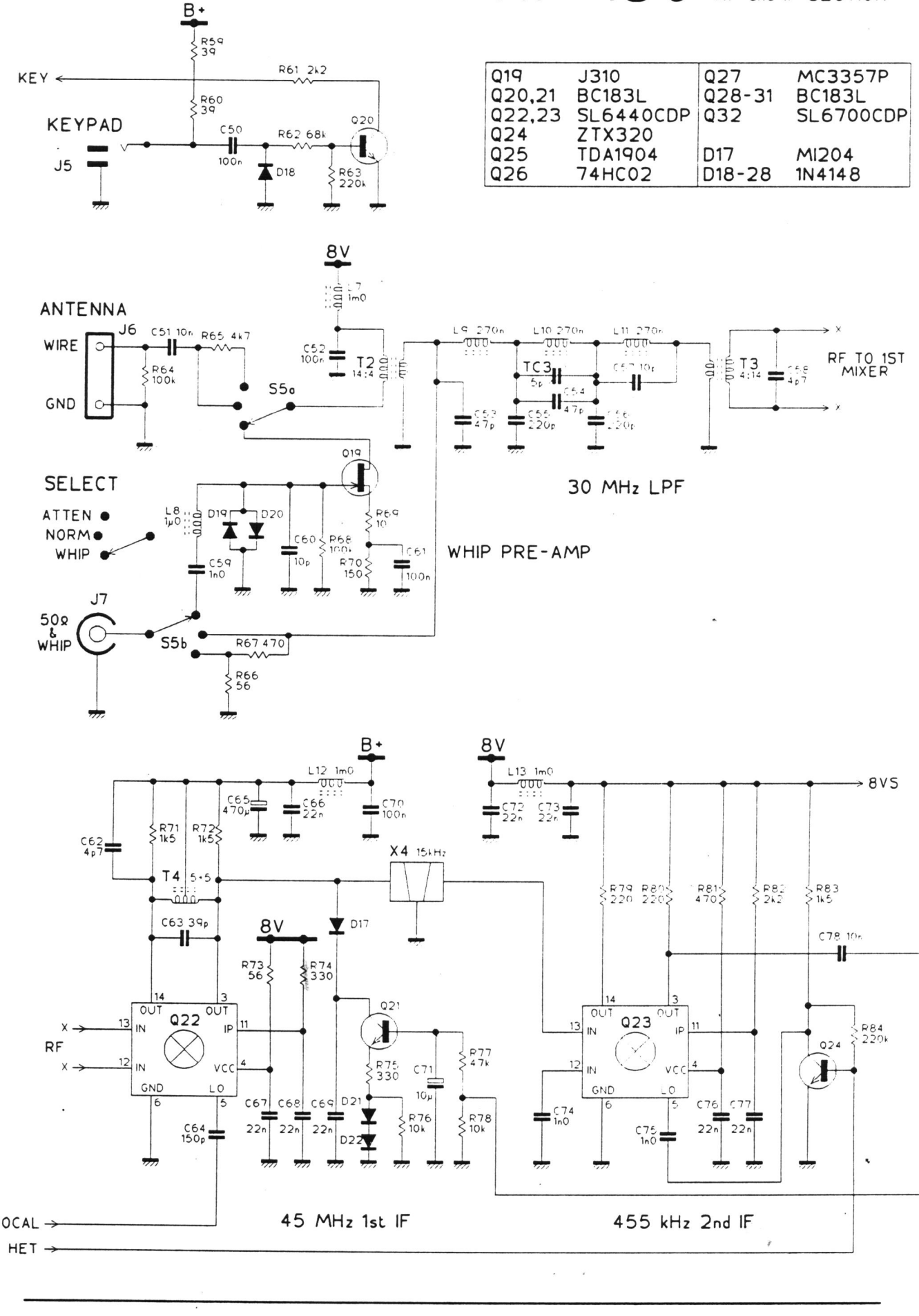
Q7	TDD1742T
Q8	μPB556C
Q9,10	74HC4094P
Q11	TL064CP
Q12	BC212L
Q13,14	J310
Q15	ZTX327
Q16	78L05
Q17	LP2951CM
Q18	CD4066P
D3,4	BB909A
D5	BA482
D6-9	1N4148
D10-13	BAW62
D14-16	1N4002


5V
RM2 4k7
QM1
EXT MUTE
RM1 10k
BC212L
MUTE OPTION
REC OUT
J8
B+
AUDIO AMP
R88 4k7
TP6
C85 47µ
R92 220
PHONES
R93 220
BIAS
Q11
C81 10µ
C82 22n
Q25
C87 470µ
J9
R89 10k
C86 100n
C83 2µ2
INT LS
VR2 20kA
C84 10µ
R90 470
R91 3R3
EXT LS
R87 220k
TP7
VOLUME
J10
AF SWITCH
Q18
Q26
C79 100n
C80 100n
R85 68k
R86 47k
DET
MUTE
5V
TP8
SYNC
R94 22k
R95 100k
L14 1m0
R96 220k
C96 2n2
MIX OUT
VCC
Q27 SYNC I.F.
DCPL
A OUT
MIX IN
A IN
GND OSC
C89 22n
C90 22n
R99 4k7
C92 1n0
C93 1n0
C94 33p
C95 1n0
C88 100n
R97 47k
C91 220p
R98 10k
CAR
5V
R100 220k
Q28
AGC
5V
R103 56
R104 220
TP9
Q30
C98 470µ
D23
R101 22k
Q29
C97 100µ
R105 47k
R102 220k
D24
X7 7kHz
R107 1M0
R109 10k
R110 4k7
5V
L15 1m0
R111 10k
Q31
R108 1k5
C101 22n
C103 10µ
R106 1k5
C99 10n
C100 10n
C102 10n
AGC
A2 OUT
DET IN
MIX IN
CAR IN
VCC
NB1
Q32 I.F. AND DETECTORS
IF FILTERS
X5 2.5kHz
D25
R113 2k2
D26
R120 100k
L16 1m0
L17 1m0
NB2
C109 100n
R114 100
R115 100
GND
A1 IN
RF AGC
A1 OUT
A2 IN
DECOUPLE
AGC1
AGC2
MIX OUT
AM OUT
C104 100n
C105 100n
C110 10n
X6 7kHz
D27
R116 2k2
D28
L18 1m0
L19 1m0
R121 1k5
X8 7kHz
R122 470
R112 4k7
R117 100
R118 100
C108 220p
R119 2k2
C111 100n
C112 10µ
C113 4n7
C114 2n2
C106 100n
C107 100n
Q26
FLT


J3
J10
J8
J6
S5
J7
J5
X6
T2
X5
TC3
X8
Q32
Q23
T3
X7
Q22
TC2
T1
VR1
Q27
MUTE
Q8
BATT-
J4
VR2
J9
Q25
Q7
L1


J2
X2
OPTION
Q4
Q3
Q2
Q6
Q5
J1
Q1
S1
S2
S3
S4
TUNING
PWR/VOL
CAR GND
SVC
GND
DET
SYN
FLT
CLK
GND
REF
PWR
SD
STB
KEY

HF-150 MAIN UNIT
RF and IF SECTION



Q19	J310	Q27	MC3357P
Q20,21	BC183L	Q28-31	BC183L
Q22,23	SL6440CDP	Q32	SL6700CDP
Q24	ZTX320		
Q25	TDA1904	D17	MI204
Q26	74HC02	D18-28	1N4148